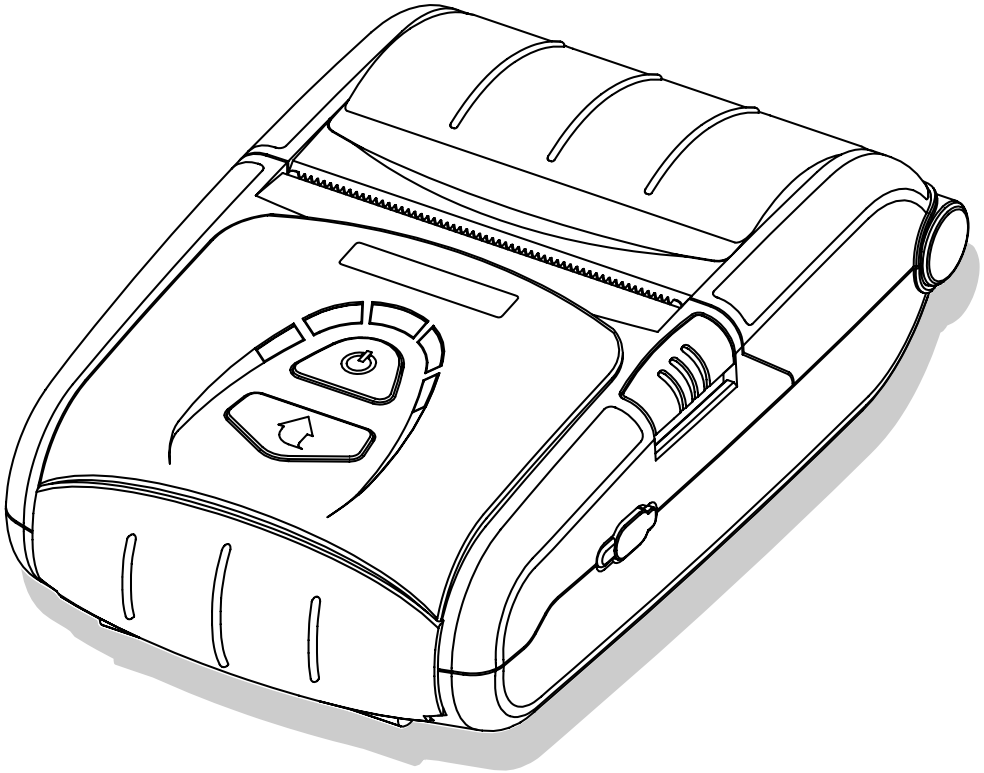
BIXOLON®

Bluetooth Connection Manual

SPP-R200

Mobile Printer

Rev. 1.07



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1. Manual Information

This Bluetooth Connection Manual provides information on the connection of Bluetooth-enabled devices (PDAs, PCs, etc.) with the printer (SPP-R200).

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

2. Precautions

2-1 To connect the printer with another device via Bluetooth, the devices must be within 10m of one another. The connection is broken if the distance between devices exceeds 10m.

2-2 The maximum separating distance may be shortened if transmission obstacles, such as cement walls, are present.

2-3 If a device (such as a microwave oven, wireless LAN, etc.) that uses the same frequency is present, transmission may be interrupted. Separate the printer and Bluetooth-enabled device from such interrupting devices by a distance of at least 5m.

3. General Sequence for Bluetooth Connections

Bluetooth connection methods vary by device. The following is the general sequence for Bluetooth connections, provided for reference purposes.

3-1 Turn on power of each device
- PDAs, PCs (Bluetooth Dongle), printers, etc.

3-2 Run a Bluetooth connection program on the PDA or PC.

3-3 Search for the peripheral with which to establish the connection.
- Search for the printer.

3-4 Register this Printer (SPP-R200) from the search results.
- If a security setting is enabled, register after entering the PIN Code.
  (PIN Code=Pass Key: password of the Bluetooth device, Default code: 0000)

3-5 Test the connection.
- When connected, confirm the designated COM port of fixed COM port and print.

4. Bluetooth Connection Instructions

This manual focuses on the use of the following devices.

Please use this manual as a guide when using devices other than those listed here.

- Intermec PDA (Device: CN2B, OS: Pocket PC 4.20.0)
- SYMBOL PDA (Device: SYMBOL MC70, OS: Windows Mobile 5.0)
- HP PDA (Device: iPAQ hx2700, OS: Windows Mobile 5.1.1702)
- Mobile Compia PDA (Device: M3, OS: WinCE 5.0)
- InnoTeletek PDA (Device: MC3000, OS: WinCE 4.2)
- Widefly PDA (Device: WF35, OS: WinCE 5.0)
- Bluetooth Dongle (BlueSoleil IVT Stack)
- Bluetooth Dongle (Widcomm Stack)

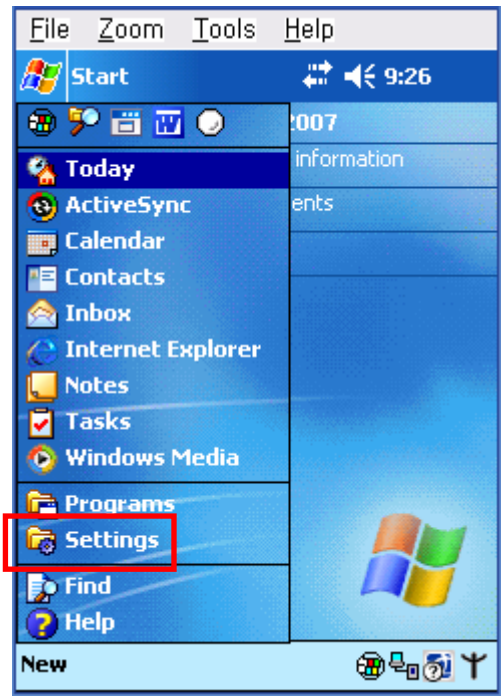
After turning on the power of all Bluetooth devices, perform the connection process.

- PDAs, PCs (Bluetooth Dongle), printers (SPP-R200), etc.

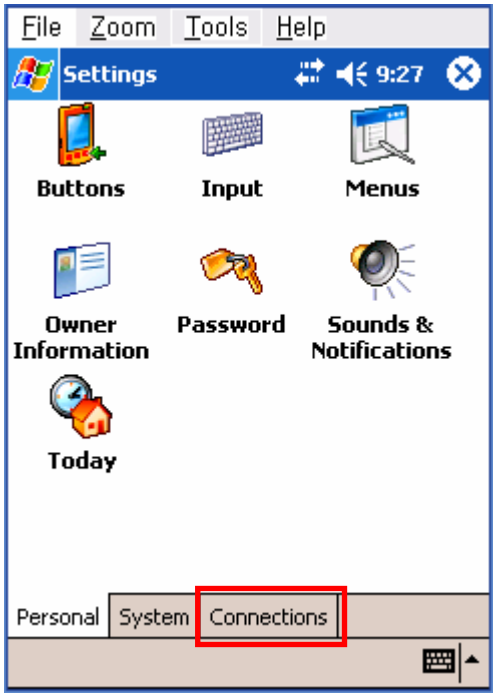
4-1 Connecting with an Intermec PDA (Device: CN2B, OS: Pocket PC 4.20.0)

1) Click the icon.

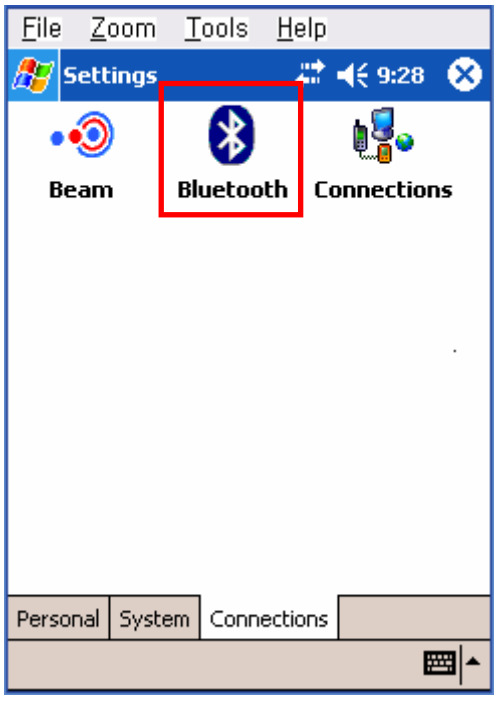
2) Click “Settings”.



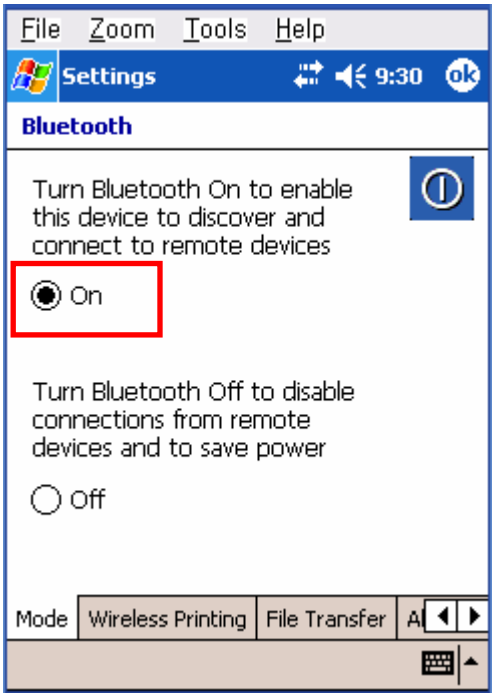
3) Click “Connections”.



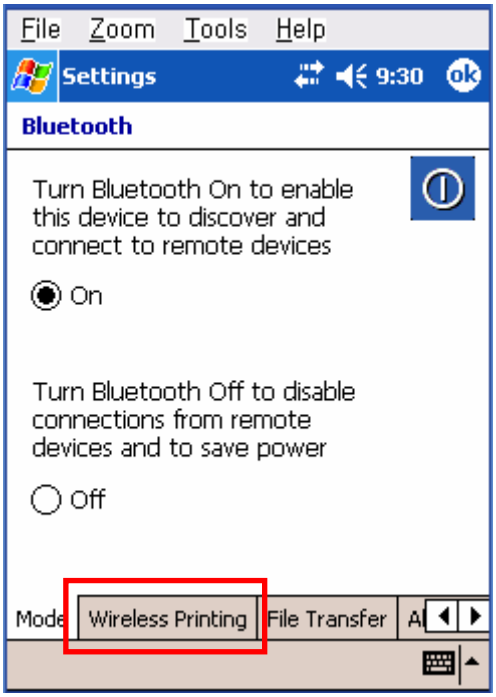
4) Click the “Bluetooth” icon.



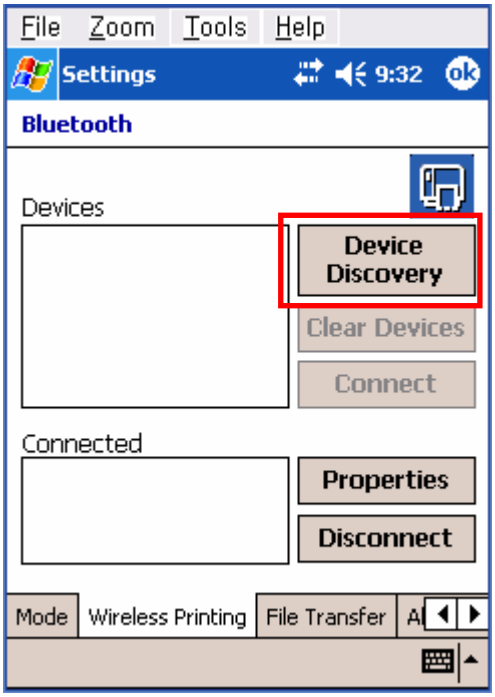
5) Click to check the “On” option.


File Zoom Tools Help
Settings 9:30 ok
Bluetooth
Turn Bluetooth On to enable this device to discover and connect to remote devices
On
Turn Bluetooth Off to disable connections from remote devices and to save power
Off
Mode Wireless Printing File Transfer

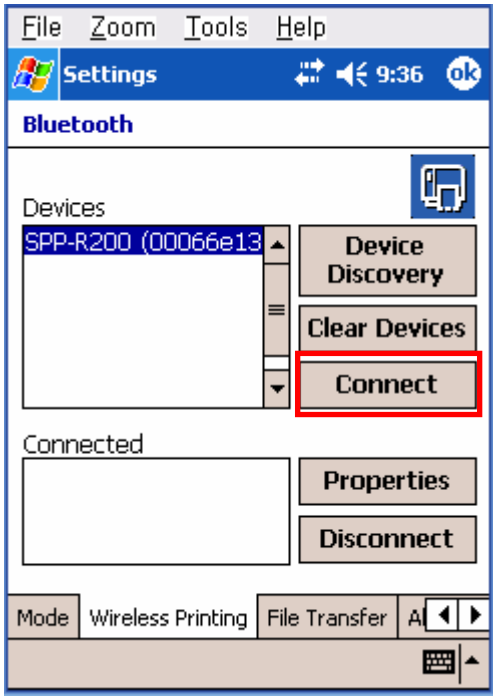
6) Click the “Wireless Printing” menu bar


File Zoom Tools Help
Settings 9:30 ok
Bluetooth
Turn Bluetooth On to enable this device to discover and connect to remote devices
On
Turn Bluetooth Off to disable connections from remote devices and to save power
Off
Mode Wireless Printing File Transfer

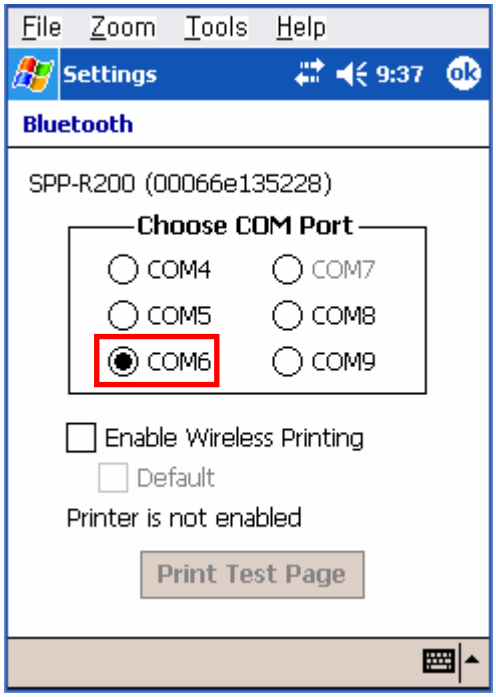
7) Click the ”Device Discovery” button.



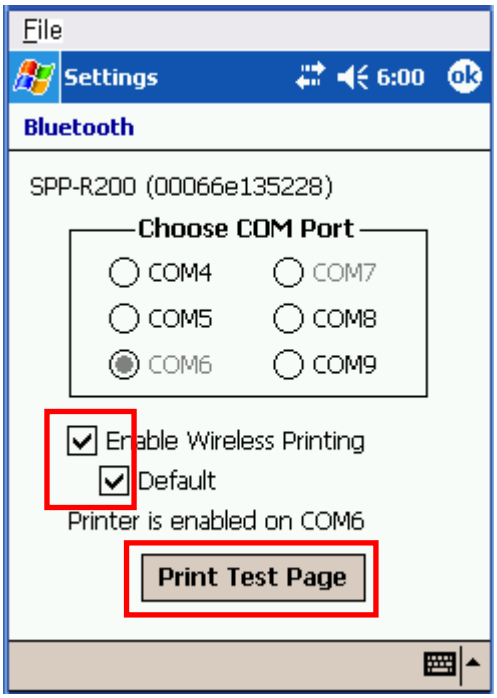
8) Select Devices of the SPP-R200,
and click the “Connect” button.



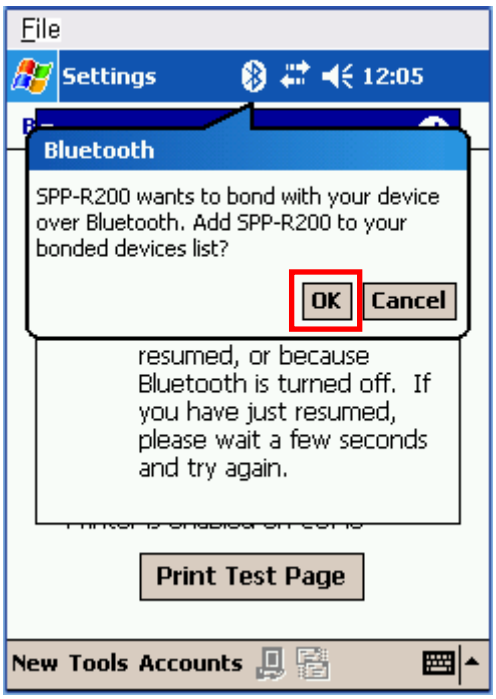
9) Select the COM port to be used.



10) Check the “Enable Wireless Printing” and ”Default” checkboxes, and click the “Printer Test Page” button.



11) Click the “OK” button.


File
Settings 12:05
Bluetooth
SPP-R200 wants to bond with your device over Bluetooth. Add SPP-R200 to your bonded devices list?
OK Cancel
resumed, or because Bluetooth is turned off. If you have just resumed, please wait a few seconds and try again.
Print Test Page
New Tools Accounts

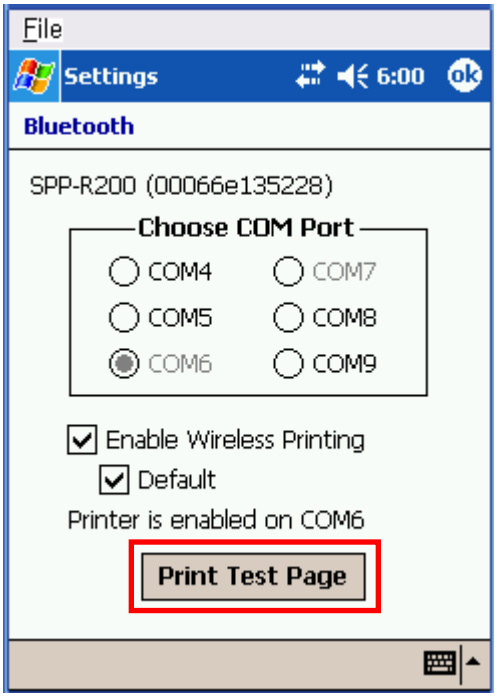
12) The PIN Code(Device PIN) window appears (if the SPP-R200 security function is enabled).

File
Start 12:06
Enter Device Bluetooth PIN
Enter a Bluetooth PIN of your choice to bond with SPP-R200. The same PIN must be entered on both devices.
Please check your device's instruction manual to learn how to answer to PIN requests.
Device PIN:
Cancel Back Next

13) Input the PIN Code(Device PIN) and click “Next”. (Default code: 0000)

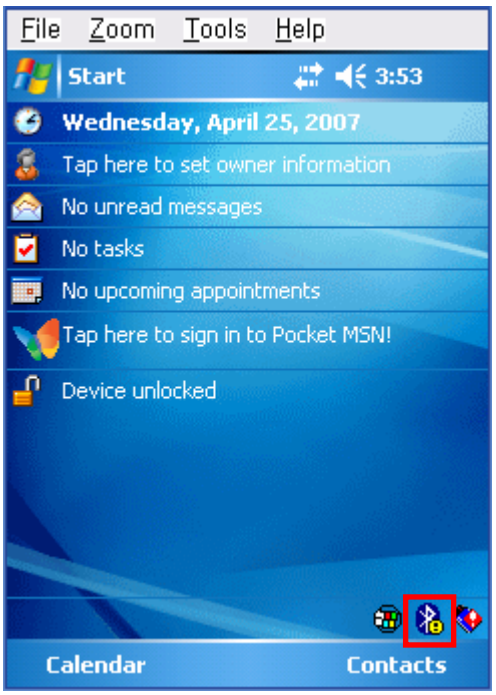
File
Start
12:07
Enter Device Bluetooth PIN
Enter a Bluetooth PIN of your choice to bond with SPP-R200. The same PIN must be entered on both devices.
Please check your device's instruction manual to learn how to answer to PIN requests.
Device PIN:
****
Cancel
Back
Next

14) If after pressing the “Print Test Page” button, the BT LED of the SPP-R200 turns on and test printing is performed, the connection is complete.

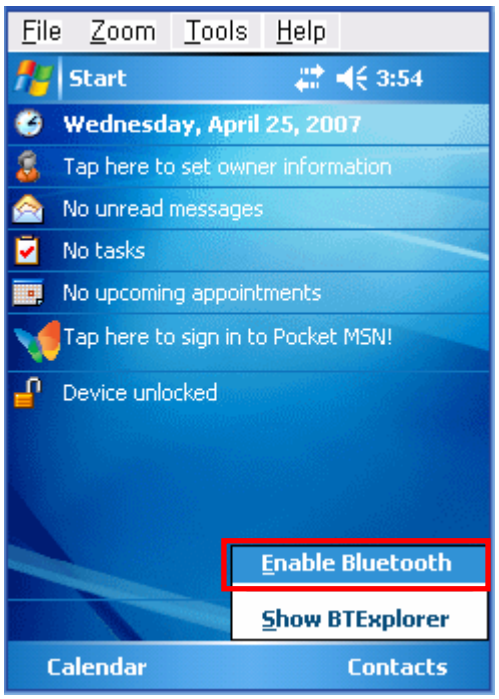


4-2 Connecting with a SYMBOL PDA (Device: SYMBOL MC70, OS: Windows Mobile 5.0)

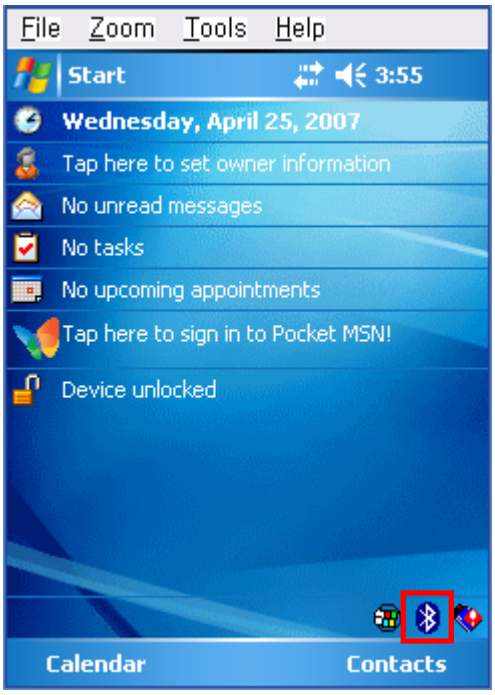
1) Click the icon.



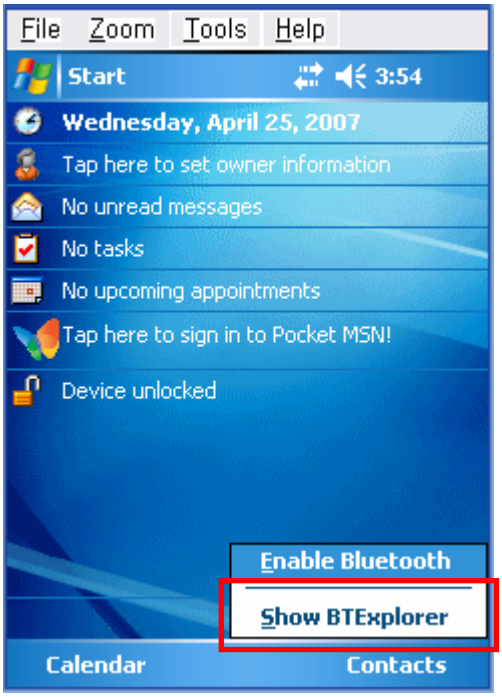
2) Click ”Enable Bluetooth”.



3) Click the icon.

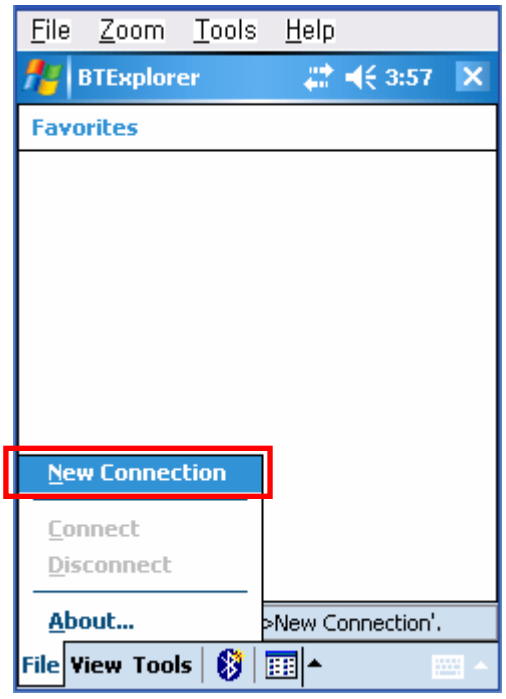


4) Click “Show BTExplorer”.

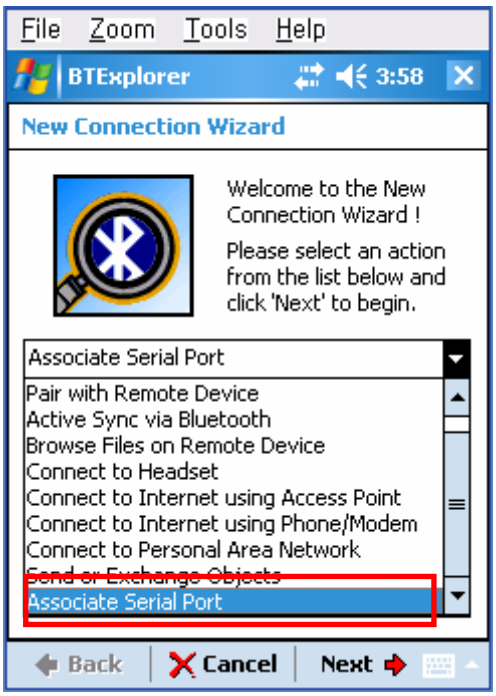


5) Click ”File”.

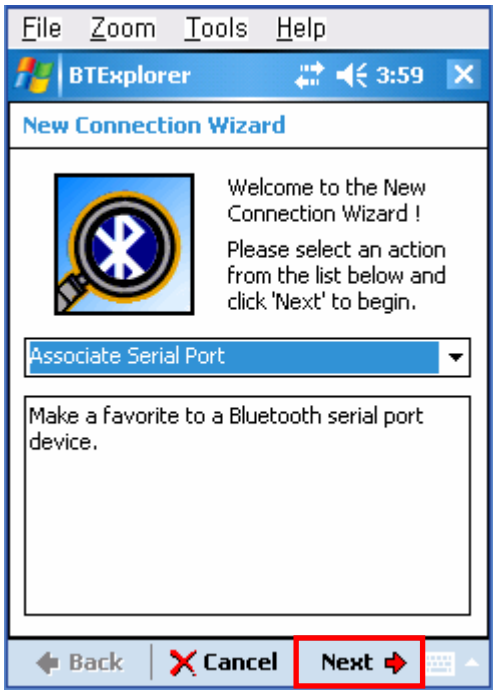
6) Click “New Connection”.



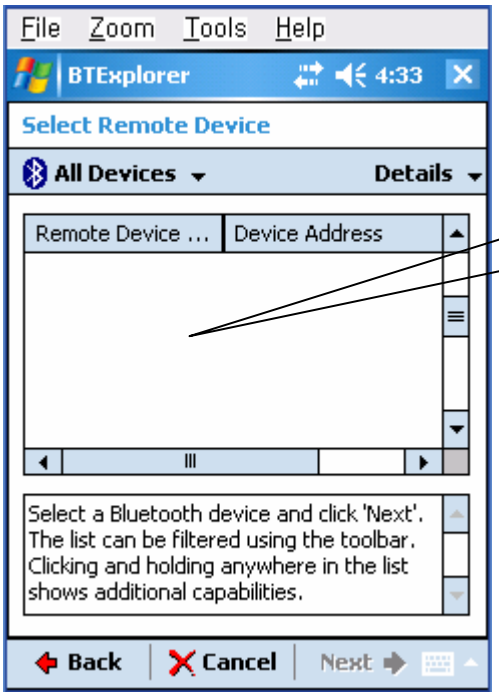
7) Click ”Associate Serial Port”.


File Zoom Tools Help
BTExplorer 3:58
New Connection Wizard
Welcome to the New Connection Wizard !
Please select an action from the list below and click 'Next' to begin.
Associate Serial Port
Pair with Remote Device
Active Sync via Bluetooth
Browse Files on Remote Device
Connect to Headset
Connect to Internet using Access Point
Connect to Internet using Phone/Modem
Connect to Personal Area Network
Send or Exchange Objects
Associate Serial Port
Back Cancel Next

8) Click the “Next” button.

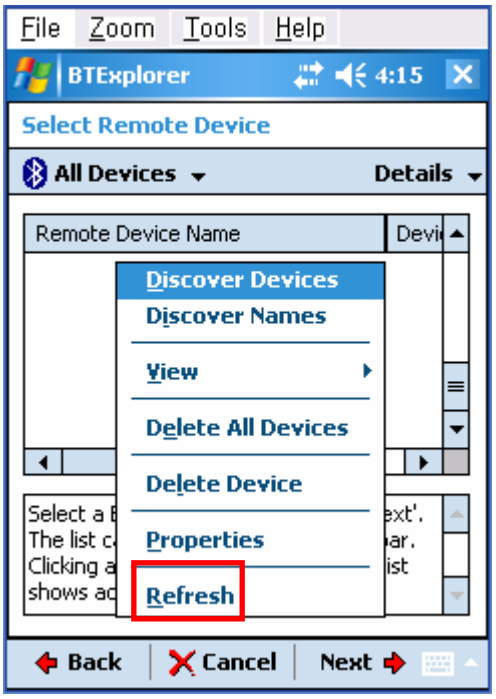

File Zoom Tools Help
BTExplorer 3:59
New Connection Wizard
Welcome to the New Connection Wizard !
Please select an action from the list below and click 'Next' to begin.
Associate Serial Port
Make a favorite to a Bluetooth serial port device.
Back Cancel Next

9) Click the List window for 2 seconds and the function folder appears.



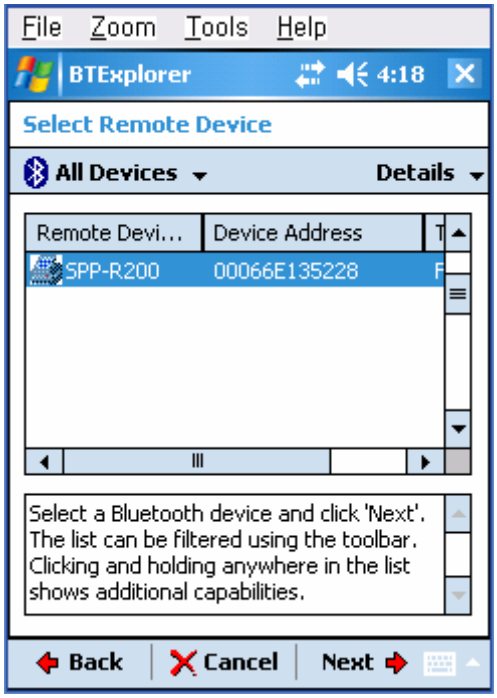
Click for 2 seconds.

10) Click “Refresh”.

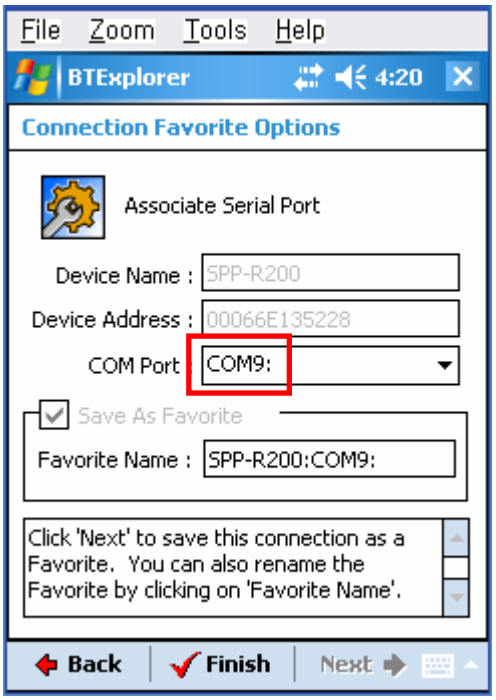


11) Bluetooth devices in the proximity are discovered.

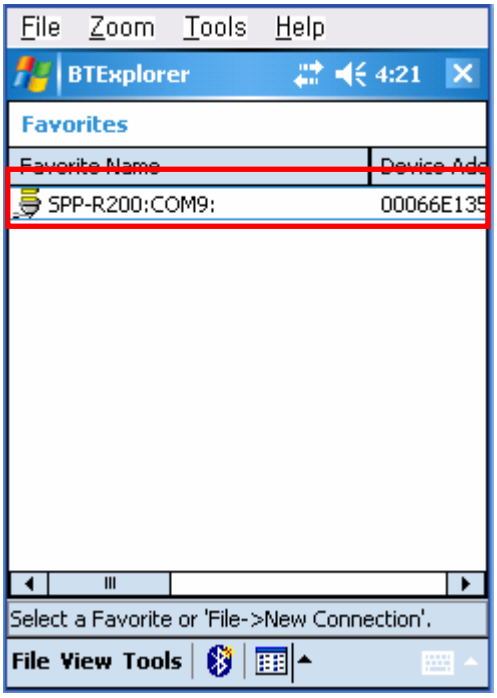
12) Select the Device Address of the SPP-R200, and click the “Next” button.



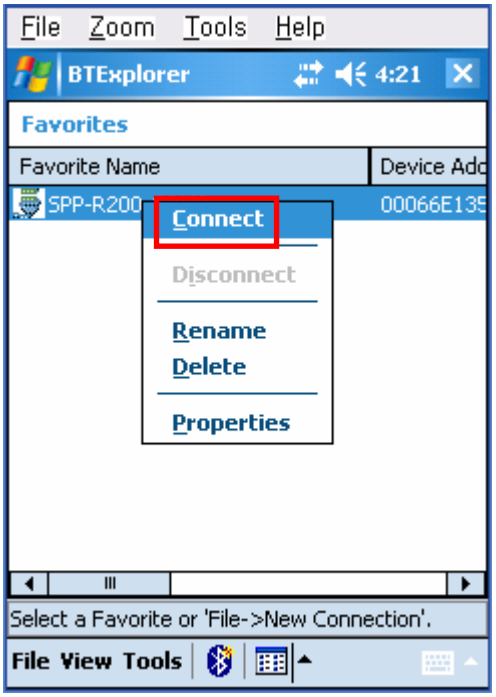
13) The Serial port is registered as COM9.


File Zoom Tools Help
BTExplorer 4:20
Connection Favorite Options
Associate Serial Port
Device Name : SPP-R200
Device Address : 00066E135228
COM Port : COM9:
Save As Favorite
Favorite Name : SPP-R200:COM9:
Click 'Next' to save this connection as a Favorite. You can also rename the Favorite by clicking on 'Favorite Name'.
Back Finish Next

14) Click the SPP-R200 name for 2 seconds.

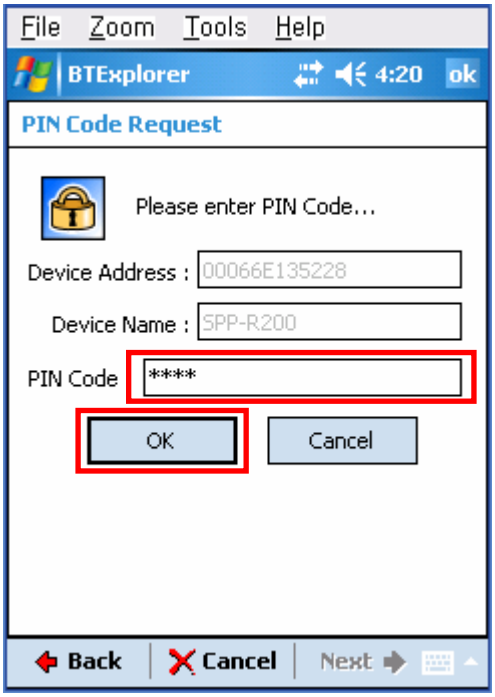


15) Click ”Connect”.

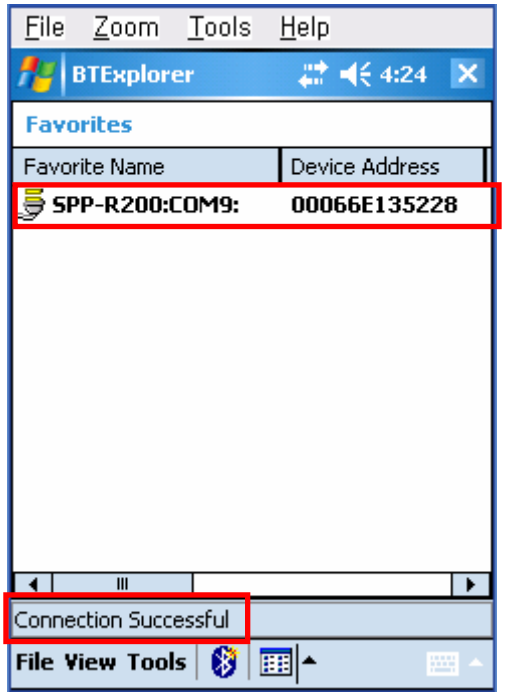


16) The PIN Code window appears (if the SPP-R200 security function is enabled).

17) Input the PIN Code and click “Enter”.
(Default PIN Code: 0000)

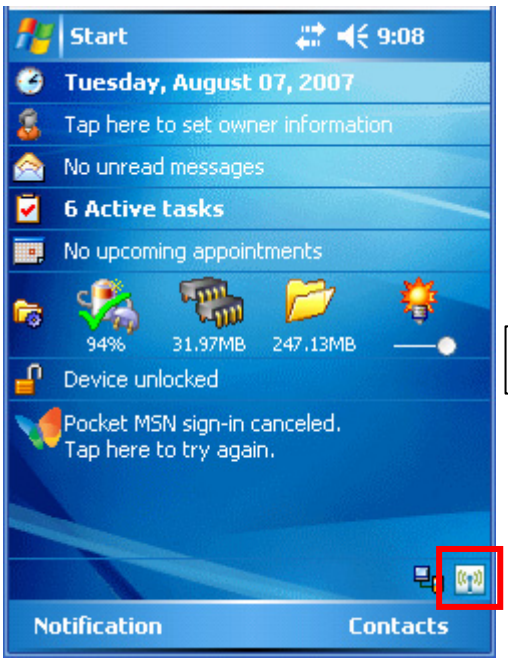


18) The “Connection Successful” message appears, and the connection is complete when the BT LED of the SPP-R200 turns on.



4-3 Connecting with an HP PDA (Device: iPAQ hx2700, OS: Windows Mobile 5.1.1702)

1) To run Bluetooth, first click the icon at the lower right of the screen.



2) Click the Bluetooth logo button to activate the Bluetooth function.

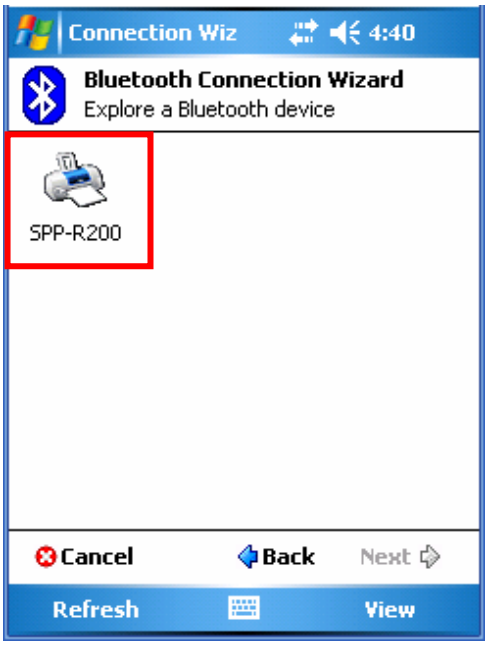
3) When activated, the Bluetooth button turns green. Click the “Manager” button to connect to the SPP-R200.

4) Click ”New“.

5) Click ”Explore a Bluetooth device”.

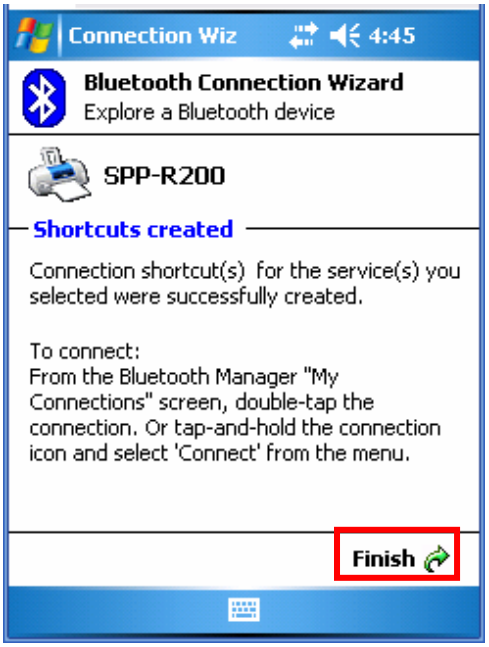
Connection Wiz
4:38
Bluetooth
Connection Wizard
Join a personal network
Connect two or more Bluetooth devices to share files, collaborate or play multiplayer games.
Exchange business cards
Send, retrieve or exchange business cards with one or more Bluetooth enabled devices.
Explore a Bluetooth device
Discover the services another device offers and create connection shortcuts for them.
Connect to a keyboard
Use a Bluetooth keyboard with this
Cancel
Next

6) Click the SPP-R200 icon from the Bluetooth devices displayed in the search results.

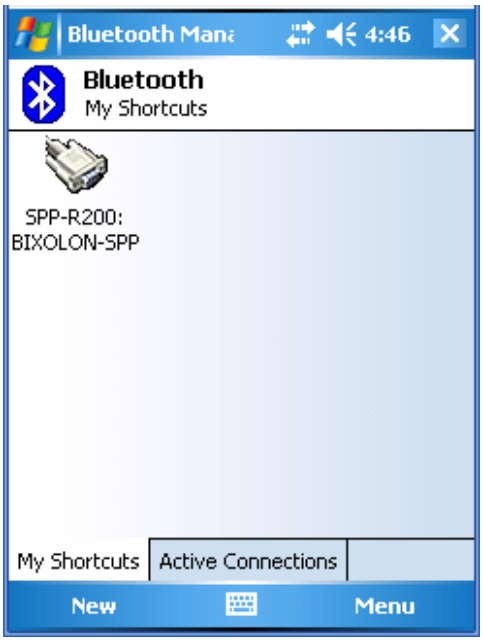


7) Select BIXOLON-SPP and click “Next”.

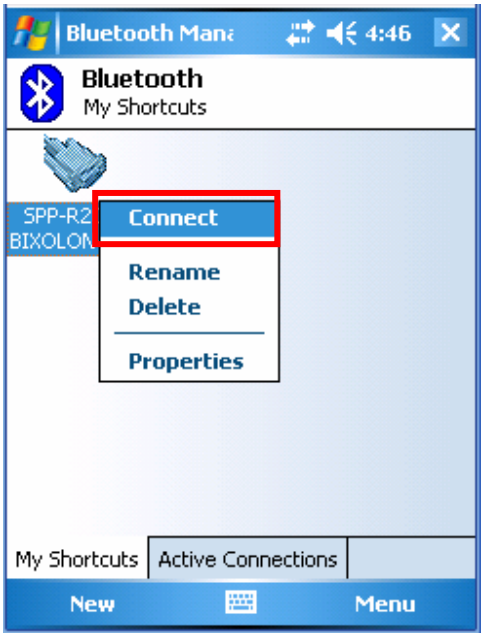
8) Click “Done”.


Connection Wiz
4:45
Bluetooth Connection Wizard
Explore a Bluetooth device
SPP-R200
Shortcuts created
Connection shortcut(s) for the service(s) you selected were successfully created.
To connect:
From the Bluetooth Manager "My Connections" screen, double-tap the connection. Or tap-and-hold the connection icon and select 'Connect' from the menu.
Finish

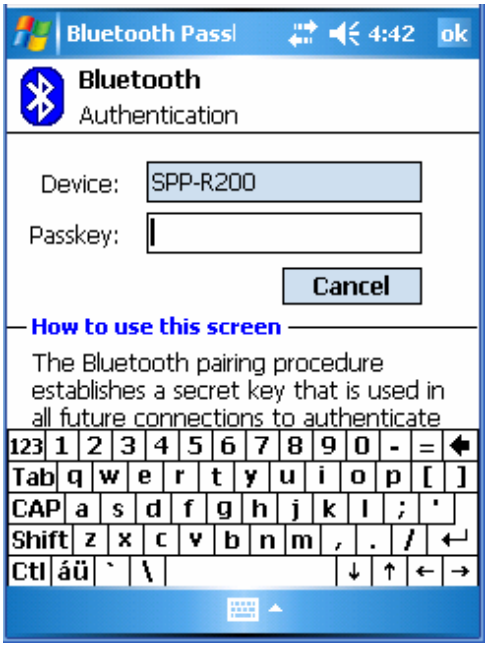
9) The SPP-R200 shortcut is produced.



10) Clicking the shortcut for 2 seconds brings up the function folder. Click “Connect”.

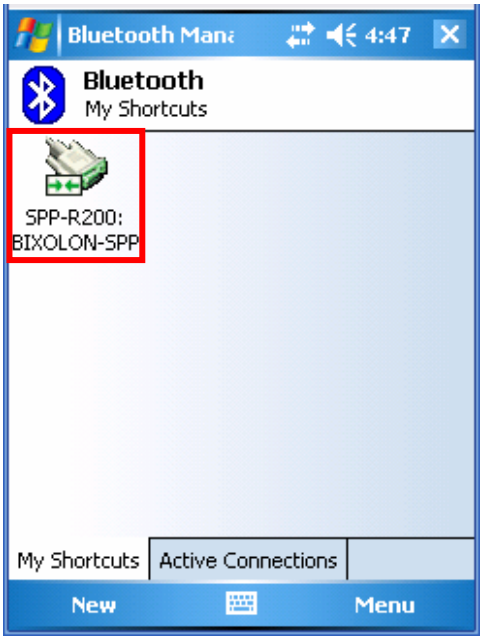


11) The Pass Key window appears (if the SPP-R200 security function is enabled).



12) Input the Pass Key and click “Enter” (Default Pass Key: 0000)

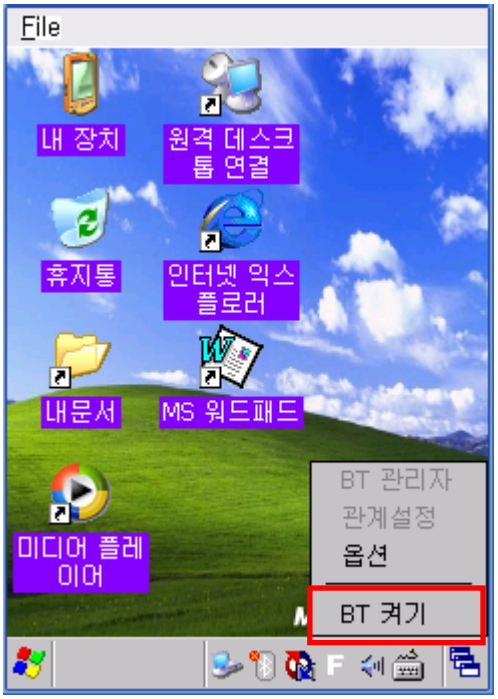
13) The shortcut changes to show a green indicator as Shown below. The connection is complete when the BT LED of the SPP-R200 turns on.



4-4 Connecting with a Mobile Compia PDA (Device: M3, OS: WinCE 5.0)

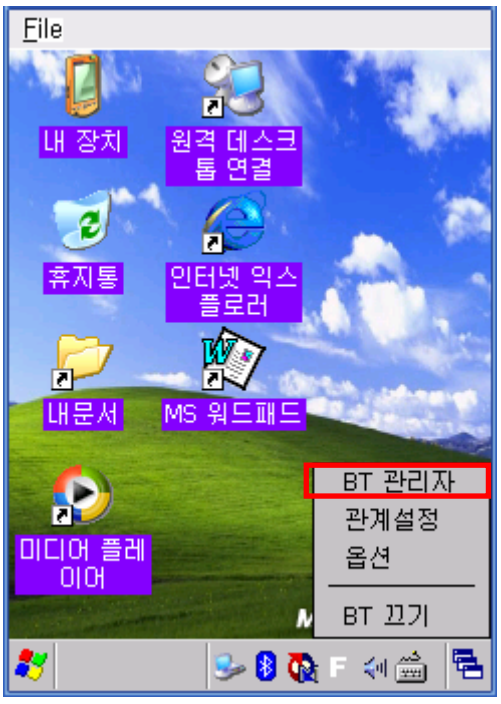
1) Click the icon.

2) Click "BT On".



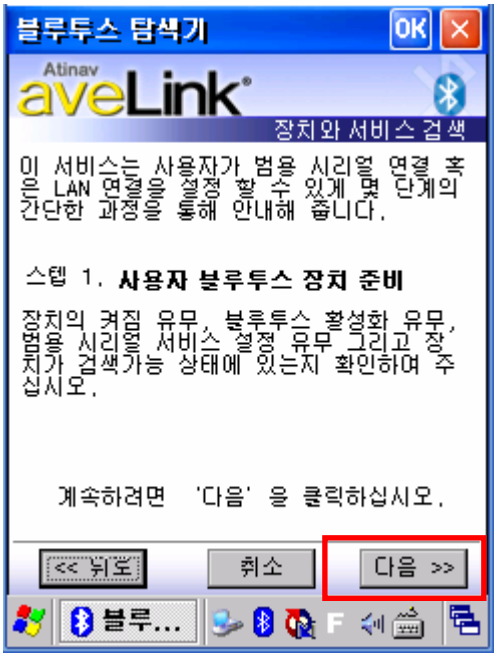
3) Click the icon.

4) Click "BT Manager".

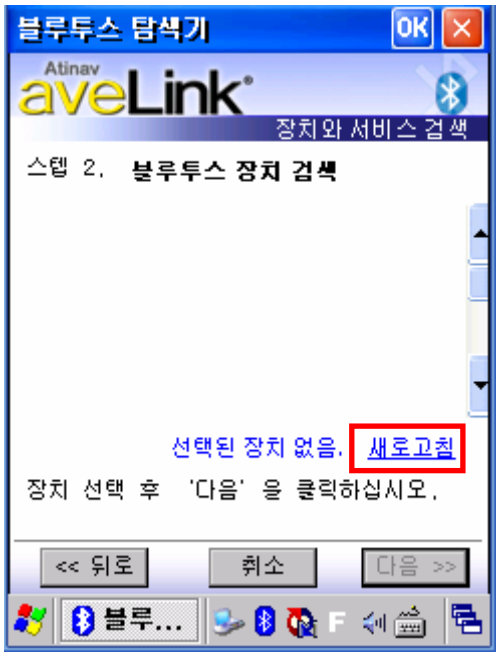


5) Click ”Find All Devices”.

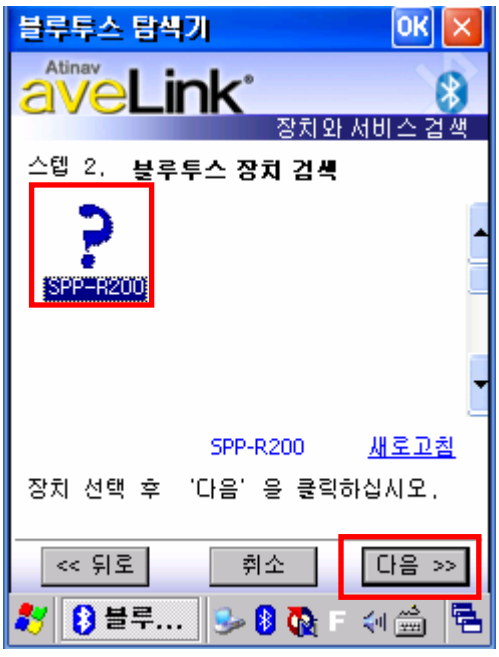
6) Click the ”Next” button.



7) Click “Refresh”.

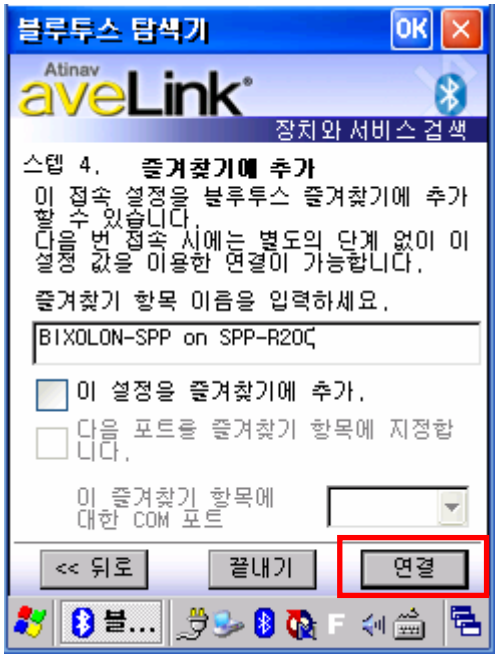


8) Click the SPP-R200 from the Bluetooth devices in the search list, and click “Next”.



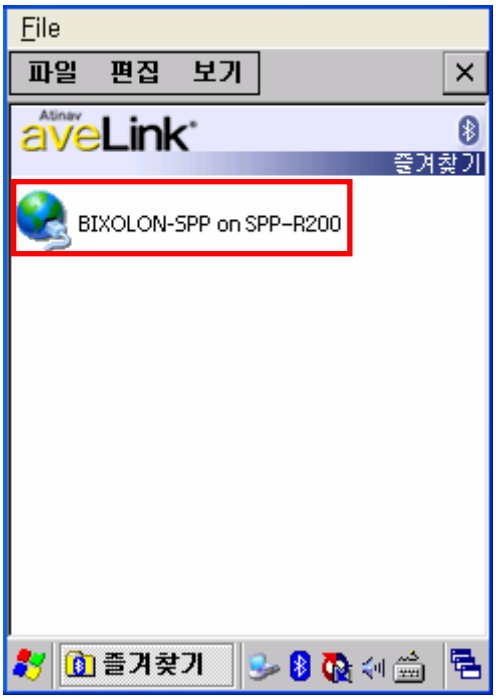
9) Select BIXOLON-SPP and click “Next”.

10) Click “Connect”



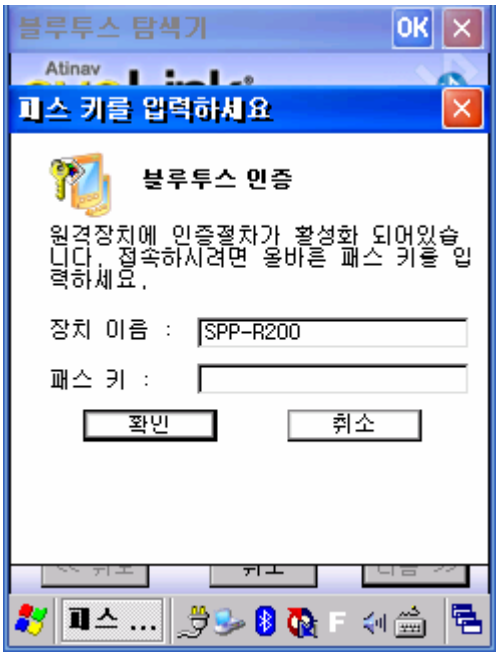
11) Click ”My favorite device”.

12) Clicking the shortcut for 2 seconds brings up the function folder. Click “Connect”.

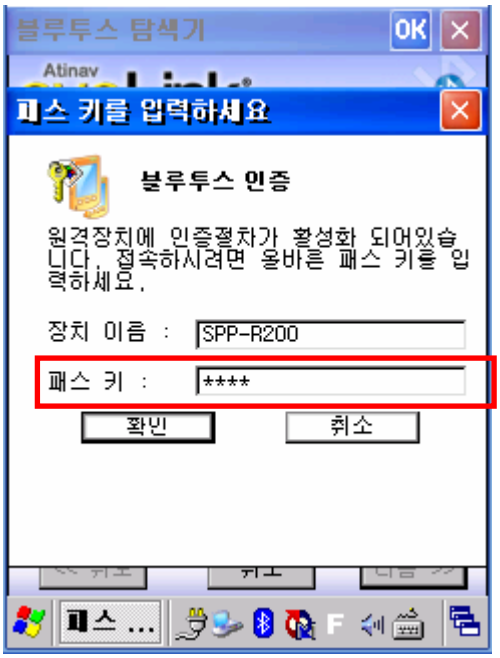


13) Click “Connect”

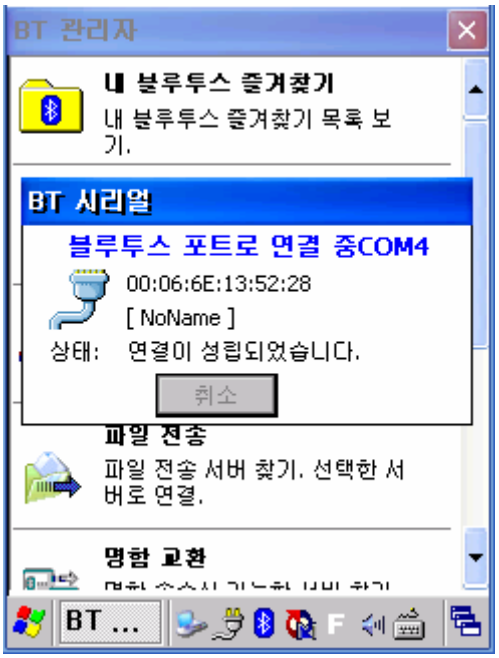
14) The Pass Key window appears (if the. SPP-R200 security function is enabled).



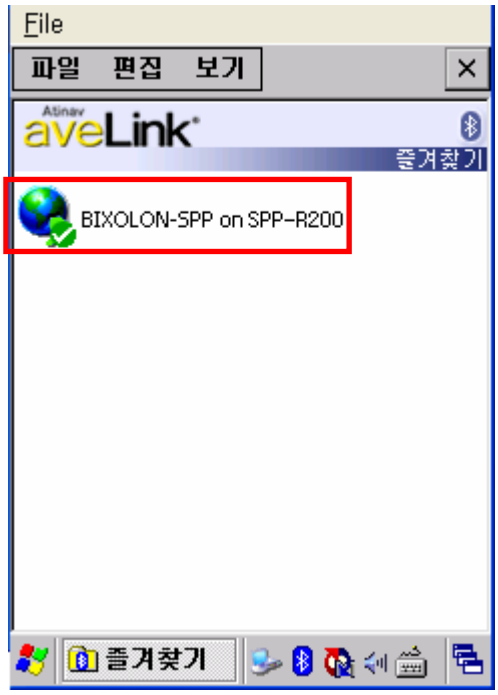
15) Input the Pass Key and click “Enter” (Default Pass Key: 0000)



16) The “Connection Established” message appears, and the connection is complete when the BT LED of the SPP-R200 turns on.



17) The connection is complete when the shortcut
changes to show a green indicator as shown below

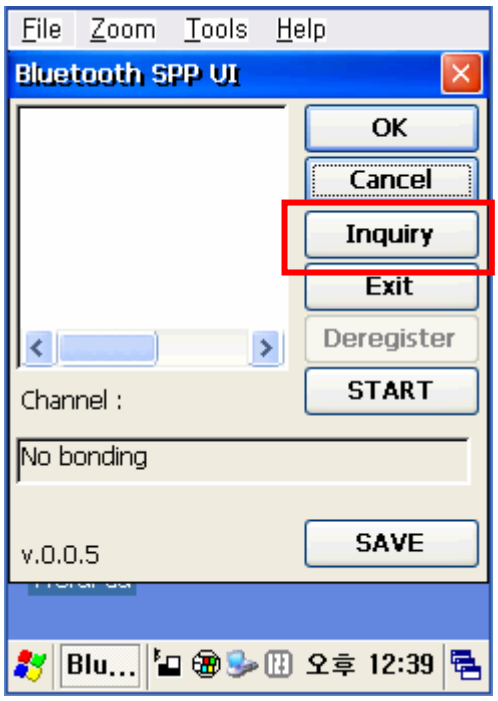


4-5 Connecting with an InnoTeletek PDA (Device: MC3000, OS: WinCE 4.2)

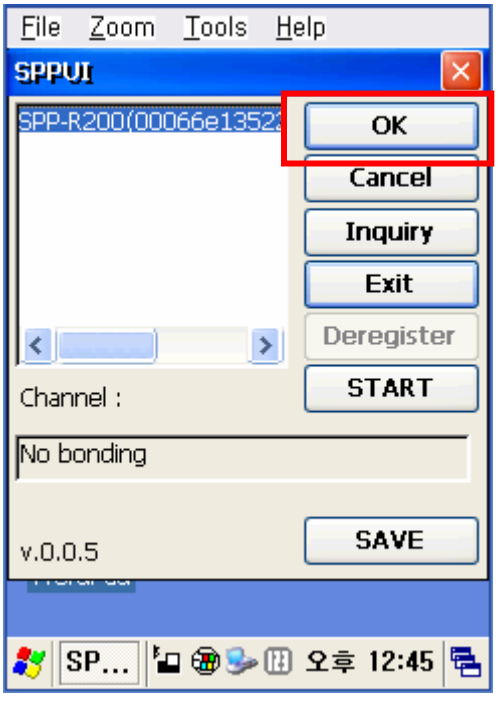
1) Click the ”sppui” icon.

2) Click the icon.

3) Click the “Inquiry” button.



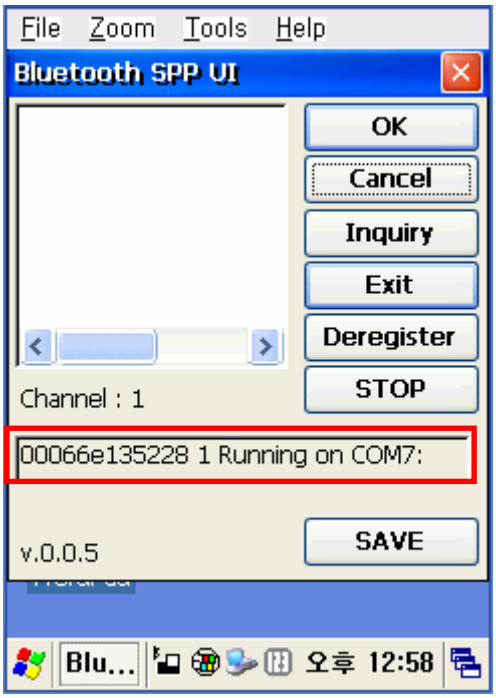
4) Select SPP-R200 and click “OK” button.



5) The PIN Code window(Select channel) appears (if the SPP-R200 security function is enabled).

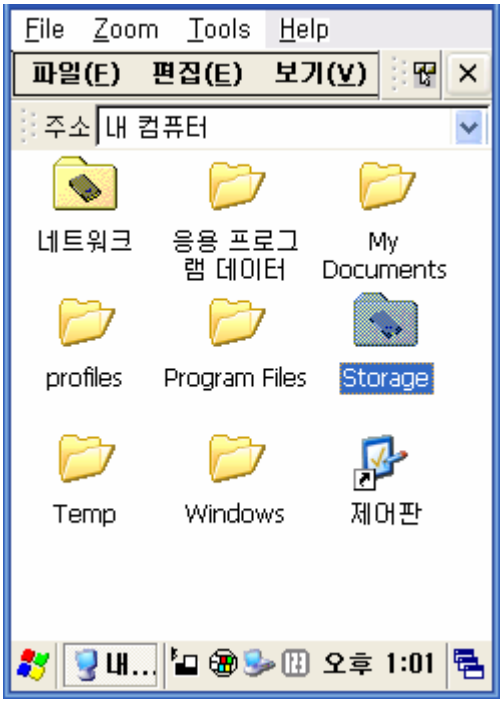
6) Input the PIN Code and click “Enter”. (Default: 0000)

7) The Serial port is registered as COM7.

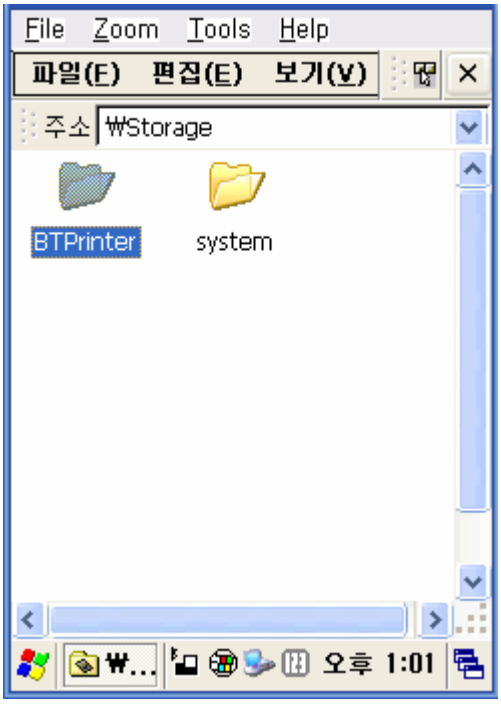


8) Click the ”My Computer” icon.

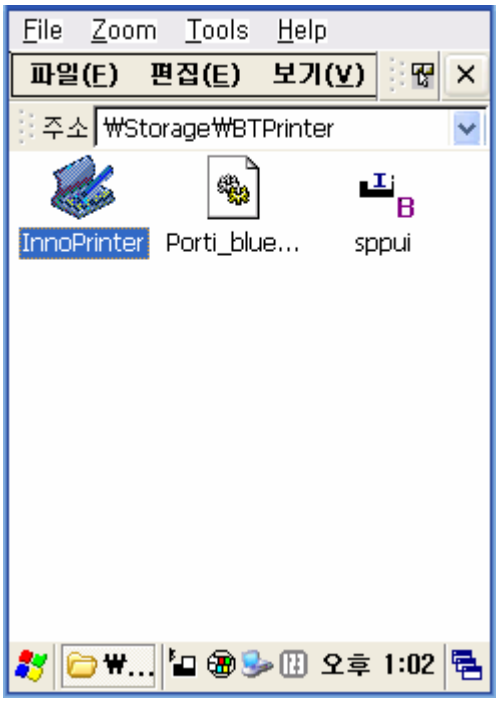
9) Click “Storage”.



10) Click ”BTPrinter”.

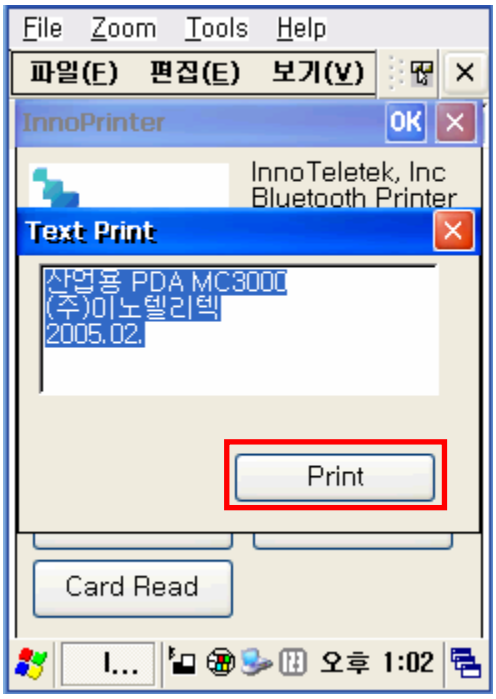


11) Click “InnoPrinter”.



12) The “Port Opened” Status message appears, and the connection is complete when the BT LED of the SPP-R200 turns on. Click the “TEXT” button.

13) Enter text to be printed in the Text window and click the “Print” button. The text is printed by the Printer(SPP-R200).

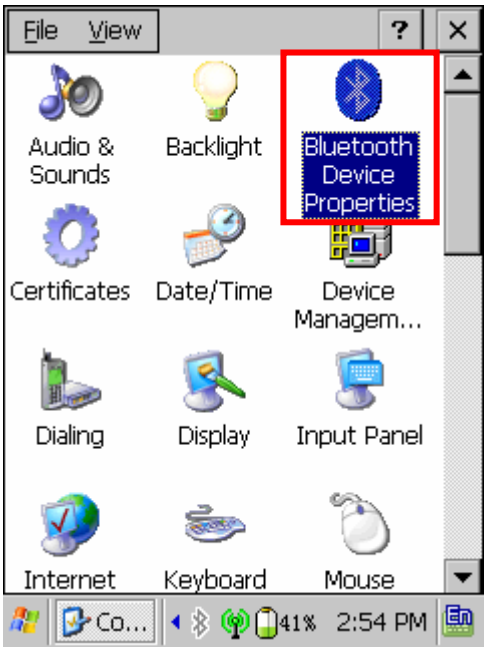


4-6 Connecting with a Widefly PDA (Device: WF35, OS: WinCE 5.0)

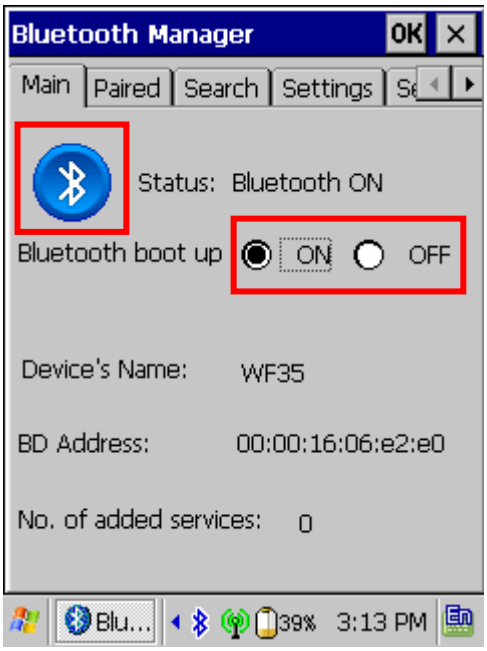
1) Click the icon then “Settings”.

2) Click “Control Panel”.

3) Click “Bluetooth Device Properties”.



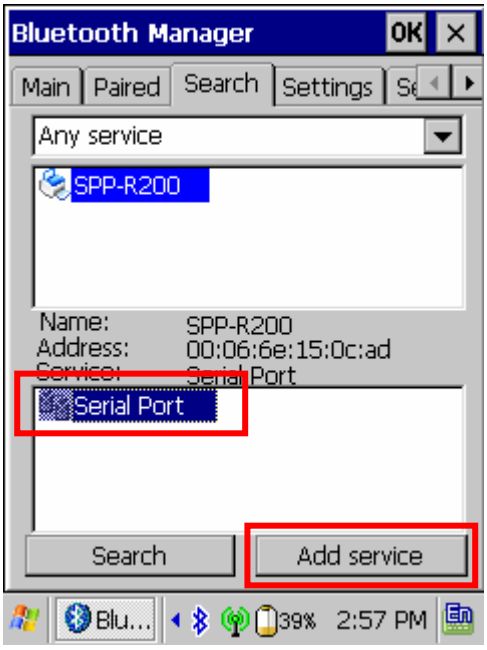
4) Click Bluetooth button. (select ON if Bluetooth is turned on automatically for every boot up of PDA.)



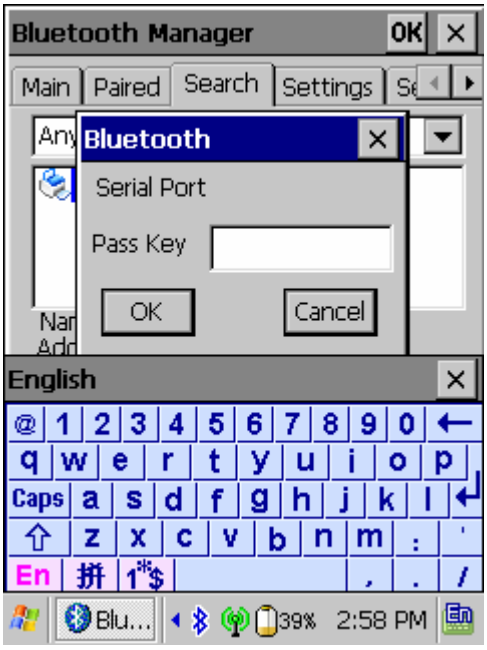
5) Click “Search” page then “Search” button.

6) Enter PIN code (default “0000”) and Click “OK”.

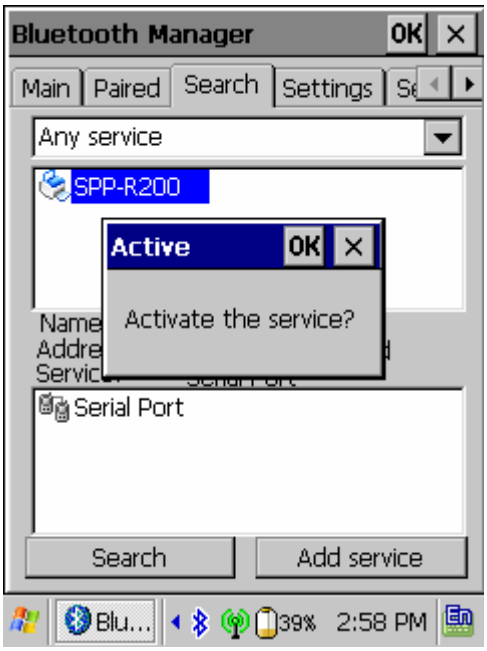
7) SPP-R200 is searched with “Serial Port”. service listed. Click “Add service”.



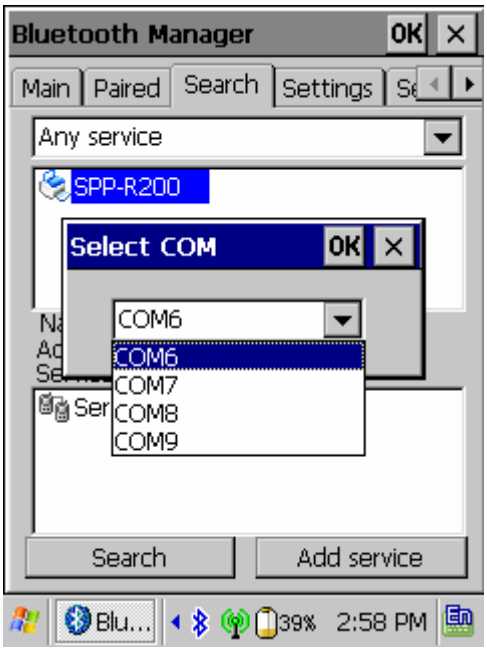
8) Enter PIN code (default “0000”) and Click “OK”.



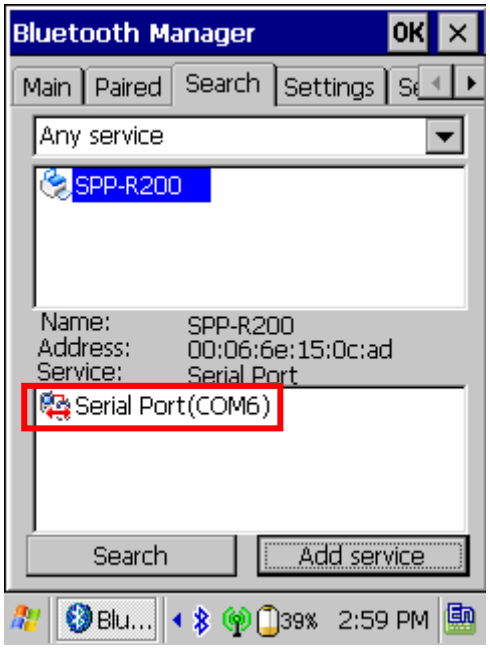
9) Press “OK” to activate “Serial Port” service.



10) Select virtual local COM port for applications and click “OK”. (e.g. COM port 6).



11) SPP-R200 is paired with WF35 and virtual local COM port is activated.



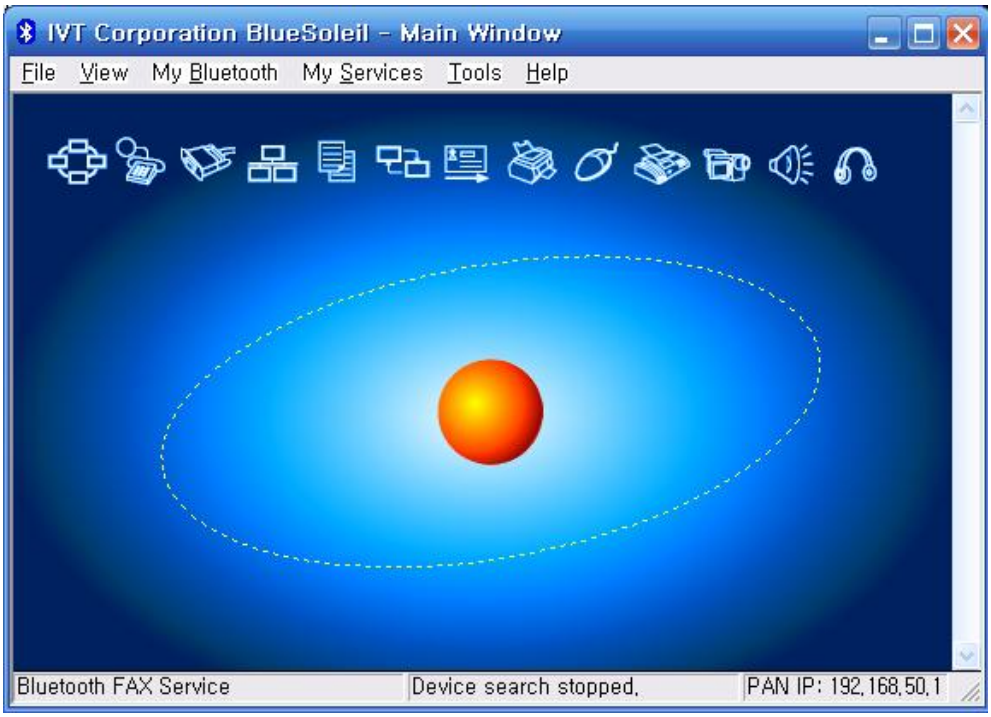
4-7 Connecting with Bluetooth Dongle (BlueSoleil IVT Stack)

1) After purchasing Bluetooth Dongle, insert the CD in the PC and install Bluesoleil.

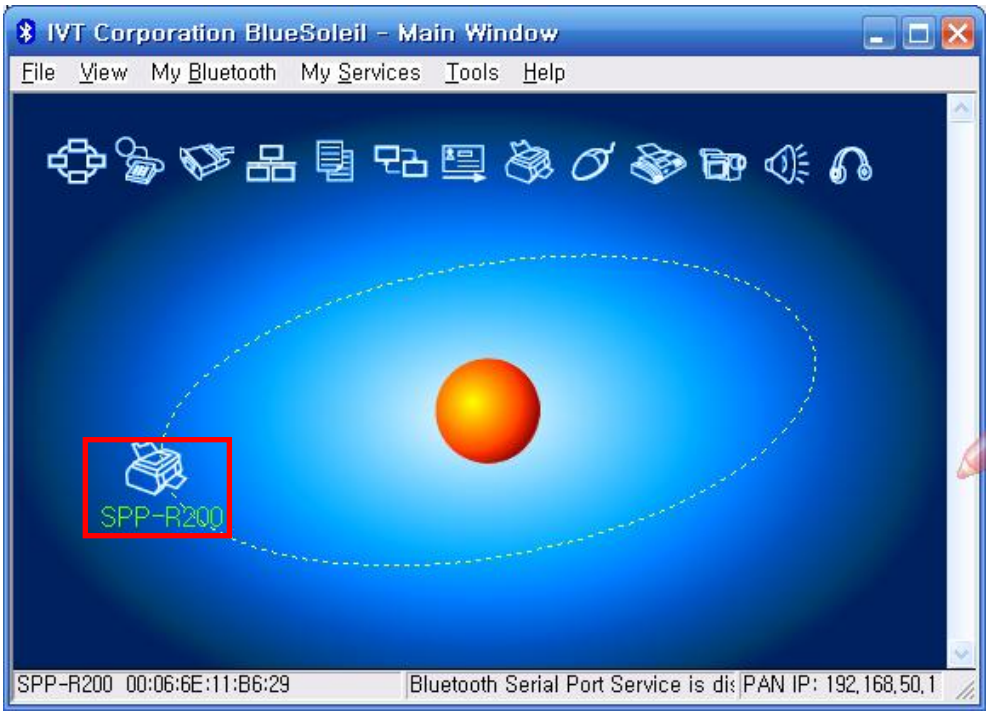
2) Connect Bluetooth Dongle to the USB port of the PC.

3) Click the Bluesoleil icon on the PC screen top.

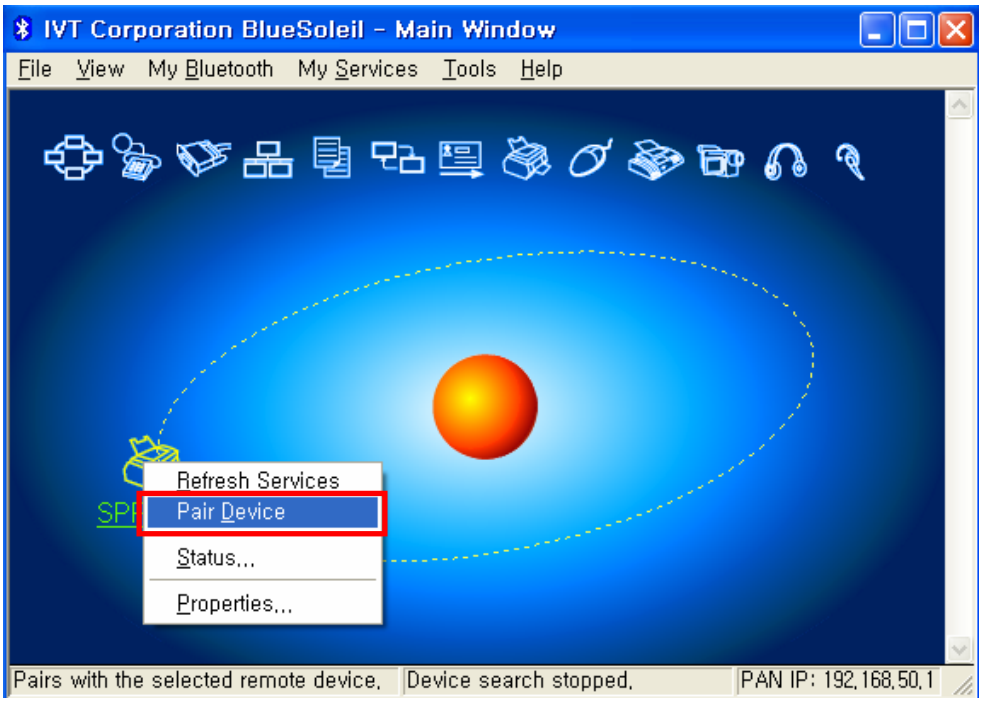
4) Click the red sphere at the center of the Bluesoleil main screen.


IVT Corporation BlueSoleil - Main Window
File View My Bluetooth My Services Tools Help
Bluetooth FAX Service
Device search stopped.
PAN IP: 192.168.50.1

5) The program initiates a search for Bluetooth devices in the proximity.

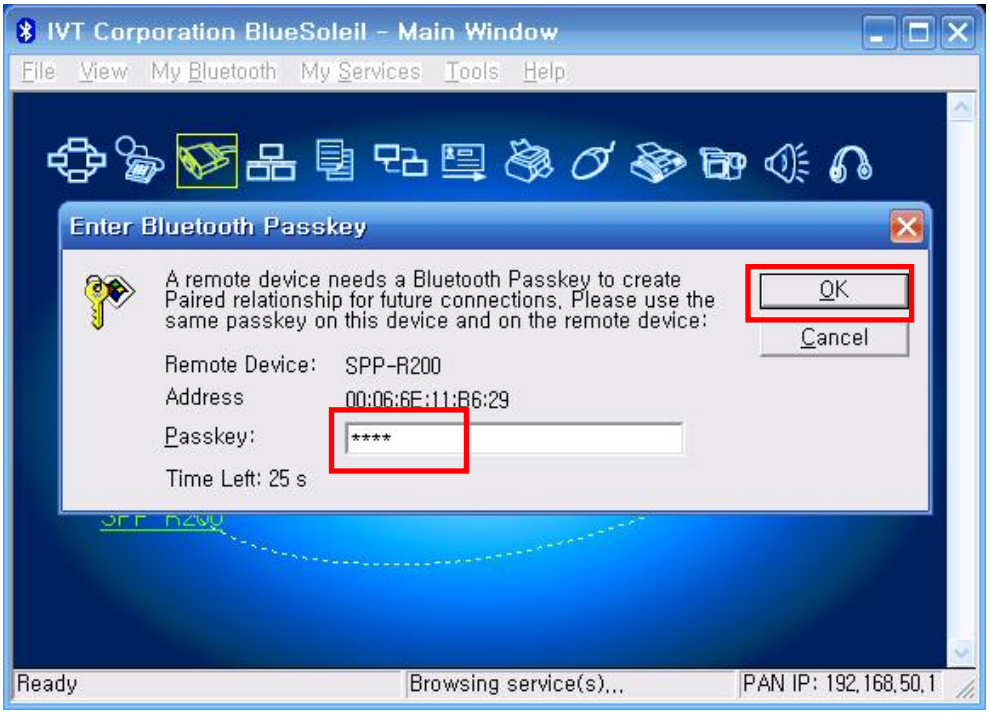

IVT Corporation BlueSoleil - Main Window
File View My Bluetooth My Services Tools Help
SPP-R200
SPP-R200 00:06:6E:11:B6:29
Bluetooth Serial Port Service is dis
PAN IP: 192.168.50.1

6) Click right button of the mouse above the "IFX-BT Icon" and select the “Pair Device”.

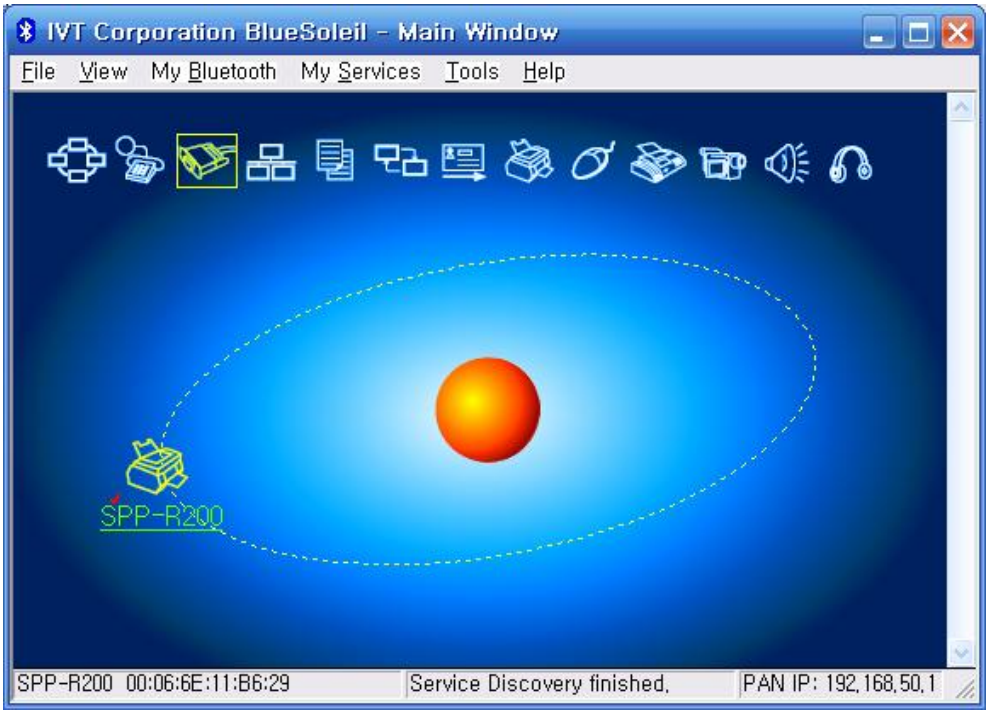


7) Enter the PIN Code in the Bluetooth Passkey window.

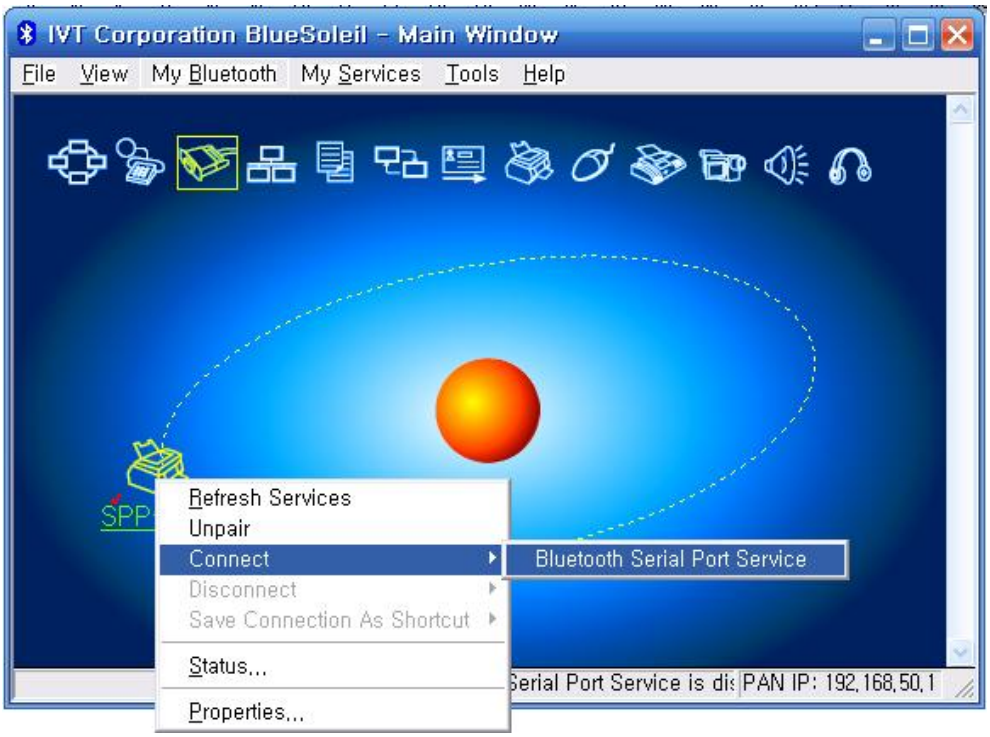
(Default Passkey: 0000)


IVT Corporation BlueSoleil - Main Window
File View My Bluetooth My Services Tools Help
Enter Bluetooth Passkey
A remote device needs a Bluetooth Passkey to create Paired relationship for future connections. Please use the same passkey on this device and on the remote device:
OK
Cancel
Remote Device: SPP-R200
Address 00:06:6E:11:B6:29
Passkey: ****
Time Left: 25 s
Ready
Browsing service(s)...
PAN IP: 192.168.50.1

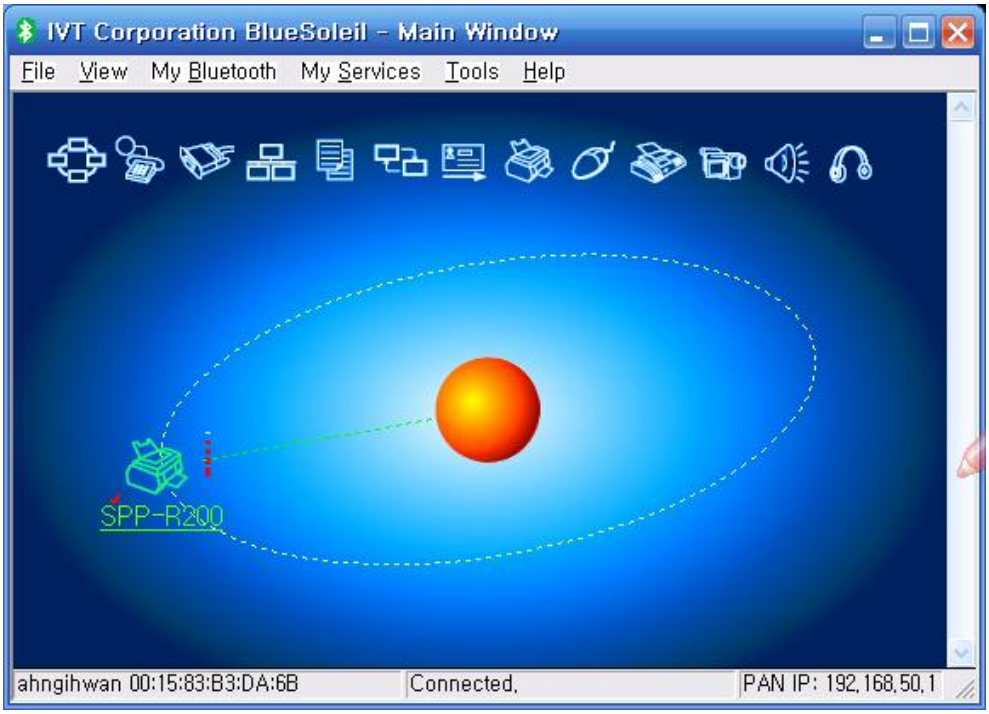
8) If the Passkey(PIN Code) is correct and pairing is completed, a red check symbol appears next to the SPP-R200 icon.



9) Click right button of the mouse above the "SPP-R200 Icon" and select the "Connect > Bluetooth Serial Port Service".



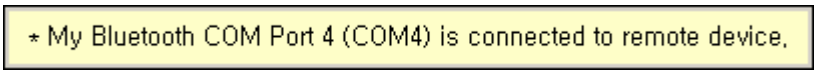
10) When the connection is established, the icon turns green, and a green dotted line appears as shown in the image below.



11) The connection is complete when the BT LED of the SPP-R200 turns on.

12) When the connection is complete, the message pictured below appears at the bottom right of the PC screen.

The COM port number shown in the message indicates the COM port via which the SPP-R200 and the PC are connected.



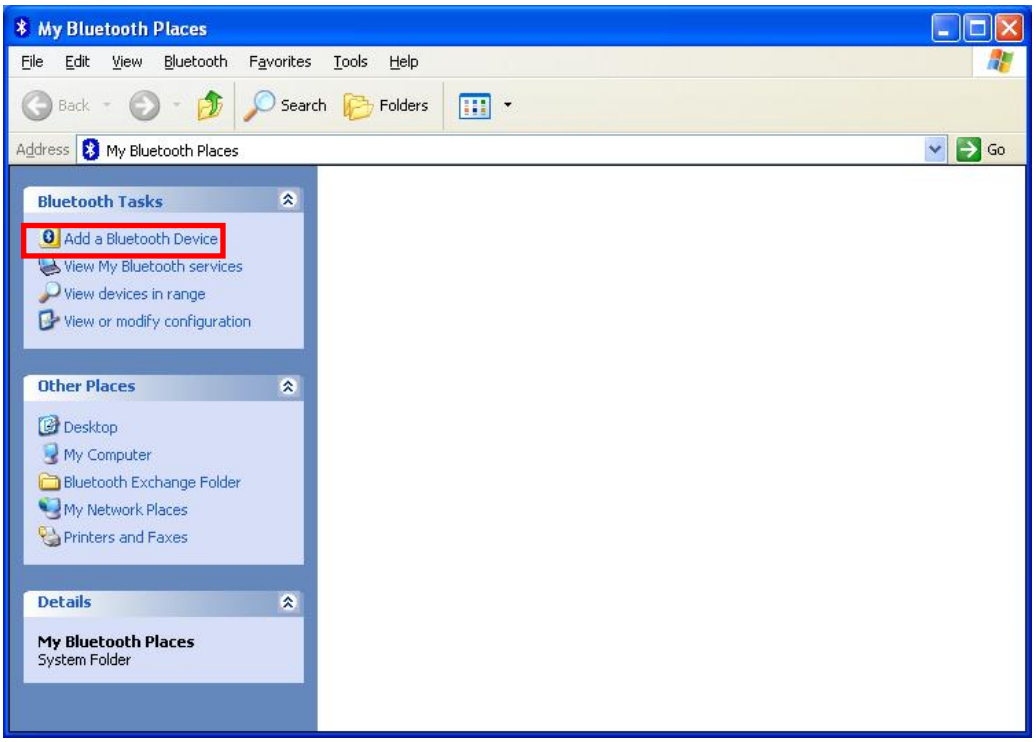
4-8 Connecting with Bluetooth Dongle (Widcomm Stack)

1) After purchasing Bluetooth Dongle, insert the CD in the PC and install Bluesoleil.

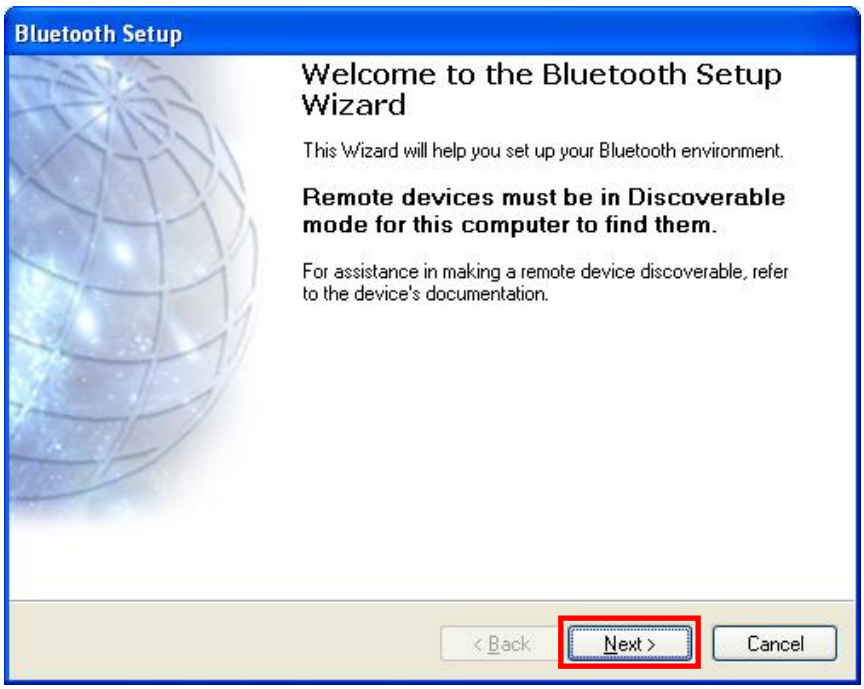
2) Connect Bluetooth Dongle to the USB port of the PC.

3) Click the My Bluetooth Places icon on the PC screen top.

4) Click “Bluetooth Tasks > Add a Bluetooth services”



5) Click ”Next”.


Bluetooth Setup
Welcome to the Bluetooth Setup Wizard
This Wizard will help you set up your Bluetooth environment.
Remote devices must be in Discoverable mode for this computer to find them.
For assistance in making a remote device discoverable, refer to the device's documentation.
< Back
Next >
Cancel

6) Select "Show all devices" and Click "Next".

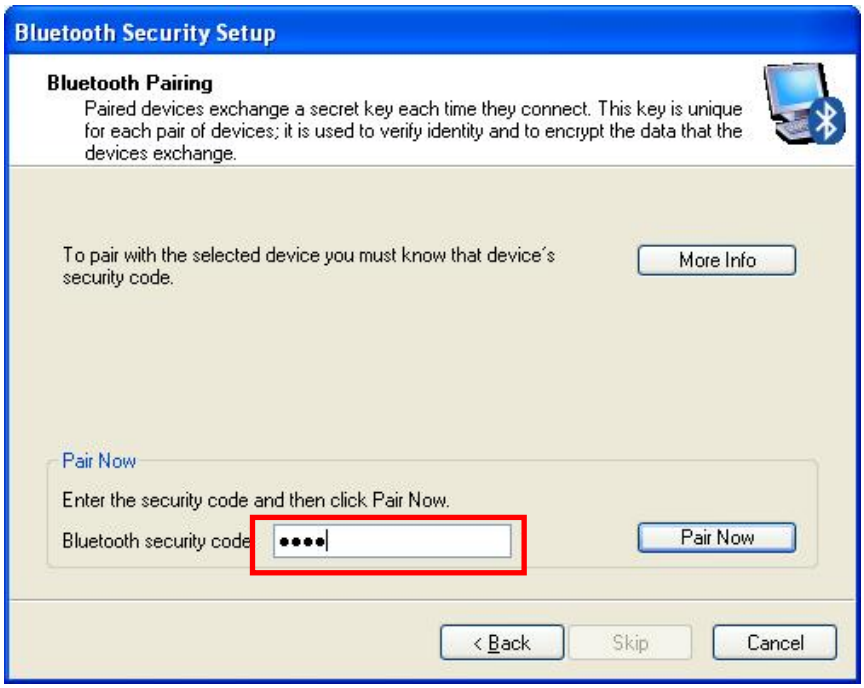
Bluetooth Device Selection
Select a device
Remote devices must be in Discoverable mode for this computer to find them. For assistance in making a remote device discoverable, refer to the remote device's documentation.
Search Again
Show all devices
If the device you are looking for is not in the list, verify that the device has power and is operational. On some devices, you must press the Connect button to make the device discoverable.
< Back
Next >
Cancel

7) The program initiates a search for Bluetooth devices in the proximity.

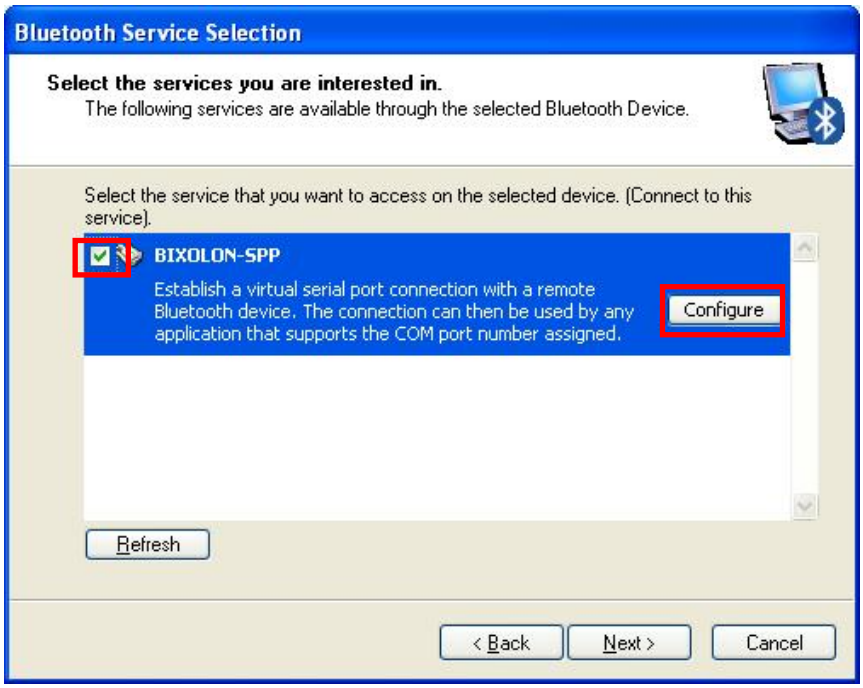
Bluetooth Device Selection
Select a device
Remote devices must be in Discoverable mode for this computer to find them. For assistance in making a remote device discoverable, refer to the remote device's documentation.
SPP-R200
Search Again
Show all devices
If the device you are looking for is not in the list, verify that the device has power and is operational. On some devices, you must press the Connect button to make the device discoverable.
< Back
Next >
Cancel

8) Enter the PIN Code in the Bluetooth Passkey window.

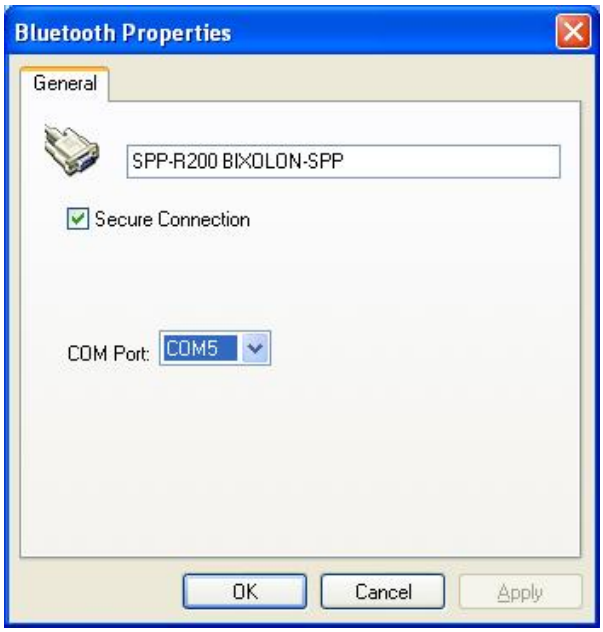
(Default Passkey: 0000)


Bluetooth Security Setup
Bluetooth Pairing
Paired devices exchange a secret key each time they connect. This key is unique for each pair of devices; it is used to verify identity and to encrypt the data that the devices exchange.
To pair with the selected device you must know that device's security code.
More Info
Pair Now
Enter the security code and then click Pair Now.
Bluetooth security code
Pair Now
< Back
Skip
Cancel

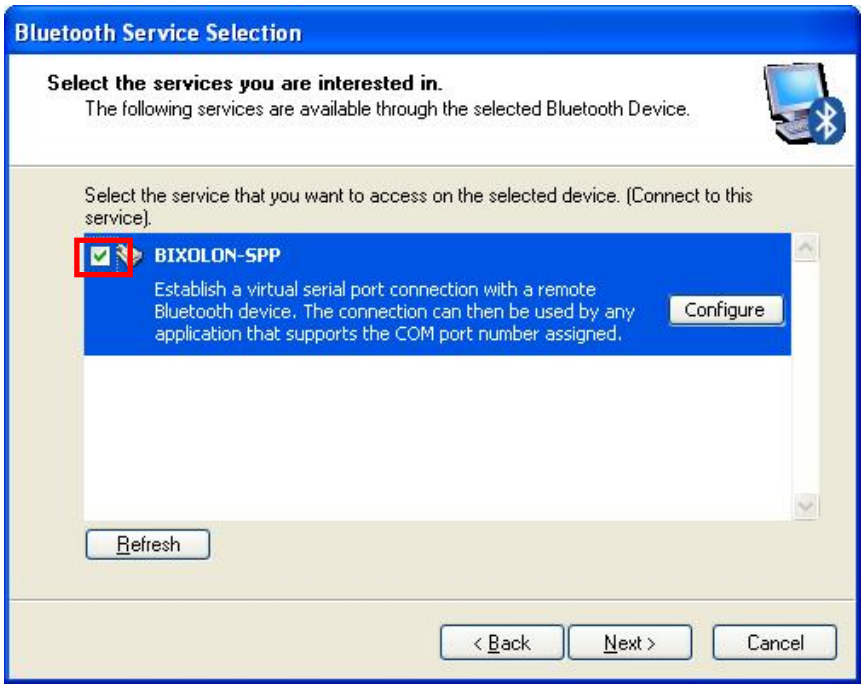
9) If the Passkey(PIN Code) is correct and pairing is completed, a green check symbol appears next to the BIXOLON_SPP icon. Click "Configure"


Bluetooth Service Selection
Select the services you are interested in.
The following services are available through the selected Bluetooth Device.
Select the service that you want to access on the selected device. (Connect to this service).
BIXOLON-SPP
Establish a virtual serial port connection with a remote Bluetooth device. The connection can then be used by any application that supports the COM port number assigned.
Configure
Refresh
< Back
Next >
Cancel

11) Check COM Port



12) Click “Next”


Bluetooth Service Selection
Select the services you are interested in.
The following services are available through the selected Bluetooth Device.
Select the service that you want to access on the selected device. (Connect to this service).
BIXOLON-SPP
Establish a virtual serial port connection with a remote Bluetooth device. The connection can then be used by any application that supports the COM port number assigned.
Configure
Refresh
< Back
Next >
Cancel

13) Click “Finish”.

Bluetooth Setup Wizard Completion Page
Completing Bluetooth Setup Wizard
SPP-R200 BIXOLON-SPP
Connect to the remote device using this connection shortcut.
Create a shortcut and then restart this wizard so that I can create additional shortcuts.
To complete this connection, click Finish.
< Back
Finish
Cancel

14) The shortcut changes to show a green indicator asshown below. The connection is complete when the BT LED of the SPP-R200 turns on.